D (Printed Pages 3) (20721)Roll No.

B.Sc.(Bio-tech.)-III Year

NS-3473(CV-II)

B.Sc. (Biotechnology) Examination,

June - 2021

PLANT BIO-TECHNOLOGY

(B-301)

(B.Sc. Biotech.)

[Maximum Marks: 75] Time: 11/2 Hours |

Note: Attempt any two questions, out of ten questions.

- Describe the process of meristem culture. 1. Mention the applications of meristem culture.
- Write notes on the following: 2.
 - Procedure of embryo culture (i)
 - Production of haploid (ii)

P.T.O.

- (a) What are the growth regulators and 3. how they are useful in plant tissue culture media.
 - (b) Describe the multi-level regulatory framework for GM crops in India.
- Describe the methods of isolation and fussion of protoplast. Explain their applications.
- 5. Describe the Agrobacterium tumefaciens mediated genetic transformation in plants.
- Explain the procedure for obtaining somaclonal variations. Mention their applications.
- Write notes on the following:
 - Biotransformation (i)
 - (ii) Elicitors

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- Discuss about the following:
 - (i) Physical gene transfer methods
 - (ii) Edible vaccines
- 9. Write notes on the following:
 - (i) Overy culture
 - (ii) In vitro pollination
- Explain the practical applications of transgenic plants.